



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) EP 0 723 216 A3

(12) EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
04.09.1996 Bulletin 1996/36

(51) Int. Cl.⁶: G06F 1/00, G11B 20/00

(43) Date of publication A2:
24.07.1996 Bulletin 1996/30

(21) Application number: 95118162.7

(22) Date of filing: 17.11.1995

(84) Designated Contracting States:
AT BE CH DE DK ES FR GB IT LI NL SE

(30) Priority: 18.11.1994 JP 285390/94

(71) Applicant: SONY CORPORATION
Tokyo (JP)

(72) Inventors:
• Kutaragi, Ken,
c/o Sony Corporation
Shinagawa-ku, Tokyo (JP)

• Hirano, Tetsuya,
c/o Sony Corporation
Shinagawa-ku, Tokyo (JP)

(74) Representative: TER MEER - MÜLLER -
STEINMEISTER & PARTNER
Mauerkircherstrasse 45
81679 München (DE)

(54) Compact disc player security system reproducing method and apparatus

(57) A security system for preventing disc players from being used with unauthorized software is disclosed. The security code is stored through modulating an offset of the physical position of a plurality of data bits from a nominal track position. A two part optical read head provides an RF signal corresponding to the presence of a physical offset modulation. The RF signal is present when there is a physical offset of the data bits defining a first logical state and the absence of the RF signal defines a second logical state. A digital security code is encoded and decoded in this manner. A system for encoding a security code through modulating the physical offset of a plurality of data bits from a nominal track position is also disclosed.

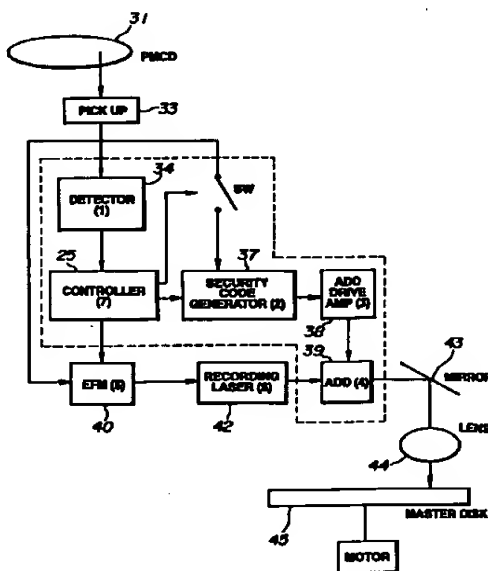


FIG.7

EP 0 723 216 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 95 11 8162

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CL. 6)
X Y	EP-A-0 545 472 (PHILIPS NV) 9 June 1993 * column 3, line 30 - line 52 *	1-3, 9, 14 10, 12, 13, 15-17, 19, 20	G06F1/00 G11B20/00
A	* column 5, line 3 - line 20 * * column 6, line 29 - column 8, line 54 * * column 9, line 19 - line 41; figures 1-9 *	4-8, 11, 18	
Y	--- EP-A-0 553 545 (SEGA ENTERPRISES KK) 4 August 1993 * column 1, line 37 - column 2, line 12; figures 1, 2 *	10, 12, 13, 15, 16	
Y	--- EP-A-0 325 330 (PHILIPS NV) 26 July 1989 * column 18, line 1 - column 19, line 46; figure 8 *	17, 19, 20	
P, X	--- EP-A-0 637 023 (VICTOR COMPANY OF JAPAN) 1 February 1995	1, 3	TECHNICAL FIELDS SEARCHED (Int. CL. 6)
P, A	* column 10, line 24 - line 38 * * column 19, line 16 - column 27, line 18; figures 6-14 * -----	2, 4-9, 14, 17-20	G11B G06F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11 July 1996	Examiner Moens, R
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- A : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 150 (01/91) (PNO/01)